

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Hall, Frederick L.
Gordon, Erlinda M.
Anderson, W. French
Starnes, Vaughn A.
- (ii) TITLE OF INVENTION: Modified Retroviral Envelope
Polypeptides for Binding to
Extracellular Matrix
Components
- (iii) NUMBER OF SEQUENCES: 3
- (iv) CORRESPONDENCE ADDRESS:
- (A) ADDRESSEE: Carella, Byrne, Bain,
Gilfillan, Cecchi, Stewart &
Olstein
- (B) STREET: 6 Becker Farm Road
- (C) CITY: Roseland
- (D) STATE: New Jersey
- (E) COUNTRY: USA
- (F) ZIP: 07068
- (v) COMPUTER READABLE FORM:
- (A) MEDIUM TYPE: 3.5 inch diskette
- (B) COMPUTER: IBM PS/2
- (C) OPERATING SYSTEM: MS-DOS
- (D) SOFTWARE: Word Perfect 5.1
- (vi) CURRENT APPLICATION DATA:
- (A) APPLICATION NUMBER:
- (B) FILING DATE:
- (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
- (A) APPLICATION NUMBER:

(B) FILING DATE:

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Olstein, Elliot M.
- (B) REGISTRATION NUMBER: 24,025
- (C) REFERENCE/DOCKET NUMBER: 271010-364

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: 201-994-1700
- (B) TELEFAX: 201-994-1744

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 amino acids
- (B) TYPE: amino acids
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: polypeptide

(ix) FEATURE:

- (A) NAME/KEY: Receptor binding region of
ecotropic gp70 protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Ala Ser Pro Gly Ser Ser Pro

5

His Gln Val Tyr Asn Ile Thr Trp Glu Val

10

15

Thr Asn Gly Asp Arg Glu Thr Val Trp Ala

20

25

Thr Ser Gly Asn His Pro Leu Trp Thr Trp

30

35

Trp Pro Asp Leu Thr Pro Asp Leu Cys Met

40

45

Leu Ala His His Gly Pro Ser Tyr Trp Gly

50

55

Leu Glu Tyr Gln Ser Pro Phe Ser Ser Pro

60	65
Pro Gly Pro Pro Cys Cys Ser Gly Gly Ser	
70	75
Ser Pro Gly Cys Ser Arg Asp Cys Glu Glu	
80	85
Pro Leu Thr Ser Leu Thr Pro Arg Cys Asn	
90	95
Thr Ala Trp Asn Arg Leu Lys Leu Asp Gln	
100	105
Thr Thr His Lys Ser Asn Glu Gly Phe Tyr	
110	115
Val Cys Pro Gly Pro His Arg Pro Arg Glu	
120	125
Ser Lys Ser Cys Gly Gly Pro Asp Ser Phe	
130	135
Tyr Cys Ala Tyr Trp Gly Cys Glu Thr Thr	
140	145
Gly Arg Ala Tyr Trp Lys Pro Ser Ser Ser	
150	155
Trp Asp Phe Ile Thr Val Asn Asn Asn Leu	
160	165
Thr Ser Asp Gln Ala Val Gln Val Cys Lys	
170	175
Asp Asn Lys Trp Cys Asn Pro Leu Val Ile	
180	185
Arg Phe Thr Asp Ala Gly Arg Arg Val Thr	
190	195
Ser Trp Thr Thr Gly His Tyr Trp Gly Leu	
200	205
Arg Leu Tyr Val Ser Gly Gln Asp Pro Gly	
210	215
Leu Thr Phe Gly Ile Arg Leu Arg Tyr Gln	
220	225
Asn Leu	

(2) INFORMATION FOR SEQ ID NO: 2:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 687 bases
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: polynucleotide
- (ix) FEATURE:
- (A) NAME/KEY: polynucleotide encoding receptor binding region of ecotropic gp70 protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GCTTCGCCCCG GCTCCAGTCC TCATCAAGTC TATAATATCA CCTGGGAGGT AACCAATGGA	60
GATCGGGAGA CGGTATGGGC AACTTCTGGC AACCACCCTC TGTGGACCTG GTGGCCTGAC	120
CTTACCCAG ATTTATGTAT GTTAGCCAC CATGGACCAT CTTATTGGGG GCTAGAATAT	180
CAATCCCCTT TTTCTTCTCC CCCGGGGCCC CCTTGTGTGCT CAGGGGGCAG CAGCCCAGGC	240
TGTTCCAGAG ACTGCGAAGA ACCTTTAACC TCCCTCACCC CTCGGTGCAA CACTGCCTGG	300
AACAGACTCA AGCTAGACCA GACAACTCAT AAATCAAATG AGGGATTTTA TGTTTGCCCC	360
GGGCCCCACC GCCCCGAGA ATCCAAGTCA TGTGGGGGTC CAGACTCCTT CTACTGTGCC	420
TATTGGGGCT GTGAGACAAC CGGTAGAGCT TACTGGAAGC CCTCCTCATC ATGGGATTTC	480
ATCACAGTAA ACAACAATCT CACCTCTGAC CAGGCTGTCC AGGTATGCAA AGATAATAAG	540
TGGTGCAACC CCTTAGTTAT TCGGTTTACA GACGCCGGA GACGGGTAC TTCTGGACC	600
ACAGGACATT ACTGGGGCTT ACGTTTGTAT GTCTCCGGAC AAGATCCAGG GCTTACATT	660
GGGATCCGAC TCAGATACCA AAATCTA	687

- (2) INFORMATION FOR SEQ ID NO: 3:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: polypeptide
- (ix) FEATURE:
- (A) NAME/KEY: collagen-binding domain of von Willebrand Factor
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
- Trp Arg Glu Pro Ser Phe Met Ala Leu Ser

5

10